

I Claim:

1. A method for ultrasound measurement of a sublayer thickness of a multilayer component with low interface reflection, which comprises the steps of:

generating a plurality of transmission impulses at a predetermined location of the multilayer component using an ultrasound probe;

digitally recording, as an HF image, resulting echo signals associated with a transmission impulse; and

homologously superimposing a plurality of wall thickness echo periods of different transit times using a computer program.

2. The method according to claim 1, wherein the multilayer component is a cladding tube for nuclear fuel and the method further comprises:

determining a liner layer thickness of the cladding tube.